

Inventors: Zapata and Reed
Serial No.: 09/706,325
Filed: November 3, 2000



APPENDIX A

8. (Amended) An isolated anti-TPBD antibody having specific reactivity with TRAF-Protein-Binding-Domain (TPBD) amino acid sequence SEQ ID NO:19 [a TPBD according to claim 1].

9. (Amended) [Antibody] An antibody according to claim 8 or 74, wherein said antibody is a monoclonal antibody.

11. (Amended) An antibody according to claim 8 or 74, wherein said antibody is a polyclonal antibody.

46. (Amended) A therapeutic composition comprising [a compound selected from a TPBD, or functional fragment thereof, a TPBD modulating agent identified according to claim 37, or] an isolated anti-TPBD antibody having specific reactivity with a TPBD amino acid sequence selected from the group consisting of SEQ ID NOS:8, 12, 19, 20, 21, 22, 23, 24 and 25; and a pharmaceutically acceptable carrier.

68. (Amended) An isolated anti-TPBD antibody having specific reactivity with [effective agent that binds] a TRAF protein binding site of a TPBD amino acid sequence selected from the group consisting of SEQ ID NOS:8, 12, 19, 20, 21, 22, 23, 24 and 25.

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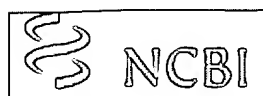
69. (Amended) An [effective agent] isolated anti-TPBD antibody having specific reactivity with a TPBD amino acid sequence selected from the group consisting of SEQ ID NOS:8, 12, 19, 20, 21, 22, 23, 24 and 25, wherein said antibody [that] modulates the association of said TPBD with a TNF family receptor [or a TRAF protein], TRAF protein or a TRAF-associated protein.

70. (Amended) The [agent] isolated anti-TPBD antibody of claim 69, wherein said TNF family receptor is TNF-R2, said TRAF protein is human TRAF6 and said TRAF-associated protein is I-TRAF.

71. (Amended) The [agent] isolated anti-TPBD antibody of claim 69, wherein said TNF family receptor is CD40, said TRAF protein is human TRAF2 and said TRAF-associated protein is I-TRAF.

72. (Amended) The [agent] isolated anti-TPBD antibody of claim 69, wherein said effective agent inhibits the association of said TPBD with said TNF family receptor [or a TRAF protein], TRAF protein or a TRAF-associated protein.

73. (Amended) The [agent] isolated anti-TPBD antibody of claim 69, wherein said effective agent increases the association of said TPBD with said TNF family receptor [or a TRAF protein], TRAF protein or a TRAF-associated protein.



CGCTCAGGATAGGACTTCCGCGCTAG/GATCGGATCCCCGGGCGGATTATATAGCTCGATCGATCT
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CCCCAATCCGCGATGGCATATACACACACCGGCGGATAGCATGACTGATCT/
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PubMed

Nucleotide

Protein

Genome

Structure

PopSet

Taxonomy

OMIM

Boo

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Limits

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Display

☐ 1: D83528. Mus musculus mRNA...
[gi:1549145]

Related Sequences, Protein, PubMed, Taxonomy, UniSTS,
LinkOut

LOCUS D83528 2105 bp mRNA linear ROD 06-FEB-1999
DEFINITION Mus musculus mRNA for TRAF5, complete cds.
ACCESSION D83528
VERSION D83528.1 GI:1549145
KEYWORDS TRAF5.
SOURCE Mus musculus cDNA to mRNA.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (sites)
AUTHORS Ishida,T.K., Tojo,T., Aoki,T., Kobayashi,N., Ohishi,T.,
Watanabe,T., Yamamoto,T. and Inoue,J.
TITLE TRAF5, a novel tumor necrosis factor receptor-associated factor
family protein, mediates CD40 signaling
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 93 (18), 9437-9442 (1996)
MEDLINE 96382484
REFERENCE 2 (bases 1 to 2105)
AUTHORS Inoue,J.
JOURNAL Unpublished
REFERENCE 3 (bases 1 to 2105)
AUTHORS Inoue,J.
TITLE Direct Submission
JOURNAL Submitted (15-FEB-1996) Jun-ichiro Inoue, Institute of Medical
Science, University of Tokyo, Oncology; 4-6-1 Shirokanedai,,
Minato-ku, Tokyo 108, Japan (E-mail:jinoue@ims.u-tokyo.ac.jp,
Tel:03-5449-5302, Fax:03-5449-5413)
COMMENT Sequence updated (27-Feb-1996) by: Jun-ichiro Inoue.
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EXHIBIT 1



PubMed

Nucleotide

Protein

Genome

Structure

PopSet

Taxonomy

OMIM

Boo

Search

Protein



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☐ 1: O43791. Speckle-type POZ ...
[gi:8134708]

BLink, Domains, OMIM, Related Sequences, Domain Relatives, PubMed,
Taxonomy, LinkOut

LOCUS SPOP_HUMAN 374 aa linear PRI 15-JUN-2002

DEFINITION Speckle-type POZ protein.

ACCESSION O43791

VERSION O43791 GI:8134708

DBSOURCE swissprot: locus SPOP_HUMAN, accession O43791;

class: standard.

created: May 30, 2000.

sequence updated: May 30, 2000.

annotation updated: Jun 15, 2002.

xrefs: gi: [2695707](#), gi: [2695708](#), gi: [12654850](#), gi: [12654851](#), gi:
[13097254](#), gi: [13097255](#)

xrefs (non-sequence databases): MIM [602650](#), InterPro IPR000210,
InterPro IPR002083, Pfam PF00651, Pfam PF00917, SMART SM00225,
SMART SM00061, PROSITE PS50097

KEYWORDS Antigen; Nuclear protein.

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (residues 1 to 374)

AUTHORS Nagai,Y., Kojima,T., Muro,Y., Hachiya,T., Nishizawa,Y.,
Wakabayashi,T. and Hagiwara,M.

TITLE Identification of a novel nuclear speckle-type protein, SPOP

JOURNAL FEBS Lett. 418 (1-2), 23-26 (1997)

MEDLINE [98074898](#)

REMARK SEQUENCE FROM N.A.

REFERENCE 2 (residues 1 to 374)

AUTHORS Strausberg,R.

TITLE Direct Submission

JOURNAL Submitted (~FEB-2001)

REMARK SEQUENCE FROM N.A.

TISSUE=Cervix, and Placenta

COMMENT

This SWISS-PROT entry is copyright. It is produced through a
collaboration between the Swiss Institute of Bioinformatics and
the EMBL outstation - the European Bioinformatics Institute.
The original entry is available from <http://www.expasy.ch/sprot>
and <http://www.ebi.ac.uk/sprot>

[FUNCTION] ANTIGEN RECOGNIZED BY SERUM FROM SCLERODERMA PATIENT.

[SUBCELLULAR LOCATION] Nuclear.

[TISSUE SPECIFICITY] WIDELY EXPRESSED.

[SIMILARITY] CONTAINS 1 BTB/POZ DOMAIN.

[SIMILARITY] CONTAINS 1 MATH/TRAF DOMAIN.

[SIMILARITY] TO C.ELEGANS T16H12.5.

FEATURES Location/Qualifiers

EXHIBIT 2

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 Region 71..191
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ORIGIN

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361 cpflgpprkr lkqs
  
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Revised: July 5, 2002.

: SPOP Δ1-185 [Nagai et al. antibody binding region (see p.25, Fig.5 of Nagai et al.)]

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: TRAF domain of SPOP [specification, Fig 2] Jul 16 2002 16:59:14

EXHIBIT 2